

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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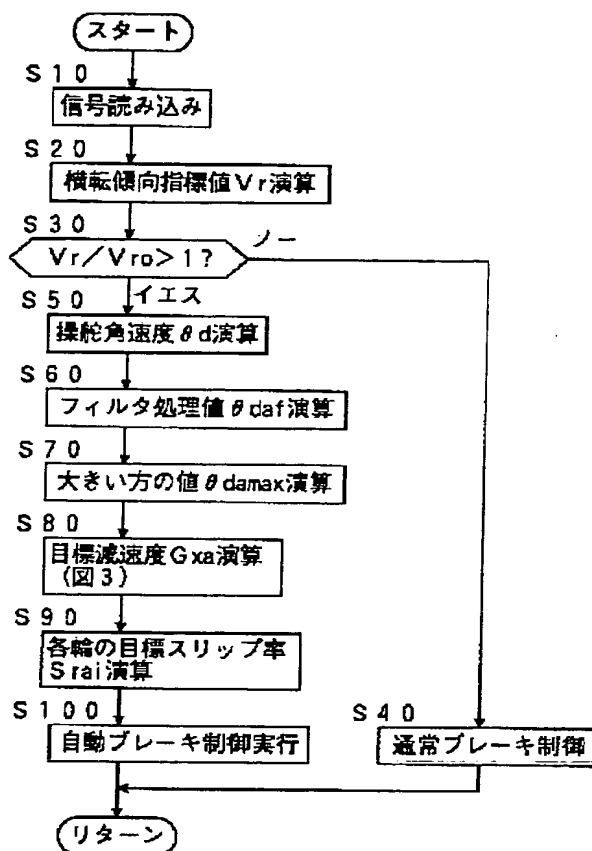
APPLICATION DATE : 07-12-98  
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TITLE : MOTION CONTROL DEVICE OF VEHICLE



ABSTRACT : PROBLEM TO BE SOLVED: To prevent a vehicle from turning on its side while good stability of vehicle is maintained, preclude a steering wheel from a risk to be taken away, and prevent the motion locus of the vehicle from swelling outside about the revolution.

SOLUTION: A turn on its side tendency index value  $V_r$  is calculated (S20), and judgement is passed whether the risk of vehicle turn on its side is high (S30) on the basis of the obtained index value  $V_r$ , and if high, the steering angular velocity  $\theta_d$  is calculated (S50), and also the filter treatment value  $\theta_{daf}$  of the absolute of the steering angular velocity is calculated (S60), and the  $\theta_d$  or  $\theta_{daf}$  whichever is the greater is taken as the maximum value  $\theta_{damax}$  (S70). On the basis of the determined  $\theta_{damax}$ , the target deceleration  $G_{xa}$  of the vehicle is calculated so that it is greater with greater  $\theta_{damax}$  (S80), and the braking force of each wheel is controlled and the vehicle is decelerated so that its deceleration becomes the target deceleration value  $G_{xa}$  (S90 and 100).

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